

Laminated plate of less heat expansion index - comprising laminating base plate obtd. by sintering sheet material of glass fibre with ceramic powder contained binder, with sheet of prepreg

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Abstract (Basic): JP 6305078 A

Mfr. comprises laminating a base plate obtd. by coating and sintering a sheet material of a glass fibre with a ceramic powder contg. an organic binder, with at least one sheet of prepreg obtd. by immersing a sheet of base material with a thermosetting resin and heat-pressing to form a laminate plate. The ceramic powder used includes zirconia, alumina, cordierite, spinel and crystobirite.

The organic binder includes an organic solvent-soluble binder e.g. polyvinyl butyral, cellulose acetate, cellulose acetate butylate and water-soluble binder e.g. polyvinyl alcohol, methyl cellulose and acrylic polymer. The base glass fibre sheet is mfd. from 200-400 yarns of a glass fibre yarn of 5-9 microns in diameter. The thermosetting resin used includes epoxy resin and phenolic resin e.g. a novlak resin.

USE/ADVANTAGE - The laminated sheet is composed of a ceramic plate and a thermosetting resin layer and has less heat expansion index and is capable of being processed mechanically.

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Title Terms: LAMINATE; PLATE; LESS; HEAT; EXPAND; INDEX; COMPRISE; LAMINATE ; BASE; PLATE; OBTAIN; SINTER; SHEET; MATERIAL; GLASS; FIBRE; CERAMIC; POWDER; CONTAIN; BIND; SHEET; PREPREG

Derwent Class: A18; A21; A32; L02; P73

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